

Whitaker, Jerry C. "Cited References"  
*AC Power Systems Handbook, 2<sup>nd</sup> Edition.*  
Jerry C. Whitaker  
Boca Raton: CRC Press LLC, 1999

---

## Cited References

- Acard, Christian, "Power Factor Measurement and Correction," *Plant Electrical Systems*, PRIMEDIA Intertec, Overland Park, KS, March 1981.
- Allen, George, and Donald Segall, "Monitoring of Computer installations for Power Line Disturbances," *Proceedings of the IEEE Power Engineering Society*, IEEE, New York, 1974.
- Anderson, Leonard R., *Electric Machines and Transformers*, Reston Publishing Company, Reston, VA.
- Angevine, Eric, "Controlling Generator and UPS Noise," *Broadcast Engineering*, PRIMEDIA Intertec, Overland Park, KS, March 1989.
- Antinone, Robert J., "How to Prevent Circuit Zapping," *IEEE Spectrum*, IEEE, New York, April 1987.
- Baietto, Ron, "How to Calculate the Proper Size of UPS Devices," *Microservice Management*, PRIMEDIA Intertec, Overland Park, KS, March 1989.
- Balabanian, N., and T. A. Bickart, "Power and Energy," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), pp. 79, CRC Press, Boca Raton, FL, 1993.
- Ballou, Glen, "Capacitors and Inductors," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), pp. 15, CRC Press, Boca Raton, FL, 1993.
- Ballou, Glen, *Handbook for Sound Engineers: The New Audio Cyclopedia*, Macmillan Computer Publishing Company, Carmel, IN, 1991.
- Bartnikas, R., "Dielectrics and Insulators," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), pp. 1132, CRC Press, Boca Raton, FL, 1993.
- Belling, Michael, "Judging Surge Suppressor Performance," *Microservice Management*, PRIMEDIA Intertec, Overland Park, KS, March 1990.
- Benson, K. B., and J. Whitaker, *Television and Audio Handbook for Engineers and Technicians*, McGraw-Hill, New York, 1989.
- Berger, K., "Blitzstorm-Parameter von Aufwärtsblitzen," *Bull. Schweiz. Electrotech.*, Ver., Vol. 69, pp. 353–360, 1978.
- Berutti, Alfred, "Specifying Dry-Type Transformers," in *Practical Guide to Applying, Installing, and Maintaining Transformers*, Robert Morgan (ed.), PRIMEDIA Intertec, Overland Park, KS, pp. 66–70, 1994.

- Berutti, Alfred, "Specifying Liquid-Filled Transformers," in *Practical Guide to Applying, Installing, and Maintaining Transformers*, Robert Morgan (ed.), PRIMEDIA Intertec, Overland Park, KS, pp. 56–58, 1994.
- Bishop, Don, "Lightning Devices Undergo Tests at Florida Airports," *Mobile Radio Technology*, PRIMEDIA Intertec, Overland Park, KS, May 1990.
- Bishop, Don, "Lightning Sparks Debate: Prevention or Protection?," *Mobile Radio Technology*, PRIMEDIA Intertec, Overland Park, KS, January 1989.
- Blackburn, David L., "Turn-Off Failure of Power MOSFETs," *IEEE Transactions on Power Electronics*, Vol. PE-2, No. 2, IEEE, New York, April 1987.
- Block, Roger, "Dissipation Arrays: Do They Work?," *Mobile Radio Technology*, PRIMEDIA Intertec, Overland Park, KS, April 1988.
- Block, Roger, "How to Ground Guy Anchors and Install Bulkhead Panels," *Mobile Radio Technology*, PRIMEDIA Intertec, Overland Park, KS, February 1986.
- Block, Roger, "The Grounds for Lightning and EMP Protection," PolyPhaser Corporation, Gardnerville, NV, 1987.
- Bose, Bimal K., *Modern Power Electronics: Evaluation, Technology, and Applications*, IEEE, New York, 1992.
- Bose, Bimal K., "Power Electronics—A Technology Review," *Proceedings of the IEEE*, IEEE, New York, Vol. 80, No. 8, pp. 1303, August 1992.
- Bose, Bimal K., "Recent Advances in Power Electronics," *IEEE Transactions on Power Electronics*, IEEE, New York, Vol. 7, No. 1, pp. 2, January 1992.
- Boxleitner, Warren, "How to Defeat Electrostatic Discharge," *IEEE Spectrum*, IEEE, New York, August 1989.
- Breya, Marge, "New Scopes Make Faster Measurements," *Mobile Radio Technology*, PRIMEDIA Intertec, Overland Park, KS, November 1988.
- Buchmann, Isidor, "Batteries," in *The Electronics Handbook*, Jerry C. Whitaker (ed.), pg. 1058, CRC Press, Boca Raton, FL, 1996.
- Carpenter, Roy, B., "Improved Grounding Methods for Broadcasters," *Proceedings, SBE National Convention*, Society of Broadcast Engineers, Indianapolis, 1987.
- Chen, Mo-Shing, "Transmission," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), pp. 1217, CRC Press, Boca Raton, FL, 1993.
- Cherniak, Steve, "A Review of Transients and Their Means of Suppression," Motorola Semiconductor Application Note AN843/D, Rev. 1, Motorola, Phoenix, AZ, 1991.
- Ching, T. B., and W. H. Schroen, "Bond Pad Structure Reliability," *Proceedings of the IEEE Reliability Physics Symposium*, IEEE, New York, 1988.

- Chowdhury, Badrul, "Power Distribution and Control," in *The Electronics Handbook*, Jerry C. Whitaker (ed.), pp. 1003, CRC Press, Boca Raton, FL, 1996.
- Code of Federal Regulations, 40, Part 761.
- Crook, D. L., "Evolution of VLSI Reliability Engineering," *Proceedings of the IEEE Reliability Physics Symposium*, IEEE, New York, 1990.
- "Current Intelligence Bulletin #45," National Institute for Occupational Safety and Health Division of Standards Development and Technology Transfer, February 24, 1986.
- Davis, Gary, and Ralph Jones, *Sound Reinforcement Handbook*, Yamaha Music Corporation, Hal Leonard Publishing, Milwaukee, WI, 1987.
- Davis, William, "Selecting Circuit Protective Devices," *Plant Electrical Systems*, PRIMEDIA Intertec, Overland Park, KS, March 1980.
- DeDad, John A., "Auxiliary Power," in *Practical Guide to Power Distribution for Information Technology Equipment*, PRIMEDIA Intertec, Overland Park, KS, pp. 31–39, 1997.
- DeDad, John A., "Considerations in Designing a Reliable Power Distribution System," in *Practical Guide to Power Distribution for Information Technology Equipment*, PRIMEDIA Intertec, Overland Park, KS, pp. 4–8, 1997.
- DeDad, John A., "Surge and Transient Protection," in *Practical Guide to Quality Power for Sensitive Electronic Equipment*, A. Berutti and R. M. Waggoner (eds.), PRIMEDIA Intertec, Overland Park, KS, pp. 39–44, 1996.
- DeDad, John A., (ed.), "Basic Facility Requirements," in *Practical Guide to Power Distribution for Information Technology Equipment*, PRIMEDIA Intertec, Overland Park, KS, pp. 24, 1997.
- DeDad, John A., (ed.), "ITE Room Grounding and Transient Protection," in *Practical Guide to Power Distribution for Information Technology Equipment*, PRIMEDIA Intertec, Overland Park, KS, pp. 83–84, 1997.
- DeDad, John A., et al., "Nonlinear Loads and Harmonics," in *Practical Guide to Quality Power for Sensitive Electronic Equipment*, PRIMEDIA Intertec, Overland Park, KS, pp. 45–49, 1994.
- Defense Civil Preparedness Agency, "EMP Protection for AM Radio Stations," Washington, D.C., TR-61-C, May 1972.
- Defense Civil Preparedness Agency, *EMP and Electric Power Systems*, Publication TR-61-D, U.S. Department of Commerce, National Bureau of Standards, Washington, D.C., July 1973.
- Defense Civil Preparedness Agency, *EMP Protection for Emergency Operating Centers*, Federal Information Processing Standards Publication no. 94, Guide-

- line on Electrical Power for ADP Installations*, U.S. Department of Commerce, National Bureau of Standards, Washington, DC, 1983.
- DeWitt, William E., "Facility Grounding Practices," in *The Electronics Handbook*, Jerry C. Whitaker (ed.), CRC Press, Boca Raton, FL, pp. 2218–2228, 1996.
- Drabkin, Mark, and Roy Carpenter, Jr., "Lightning Protection Devices: How Do They Compare?," *Mobile Radio Technology*, PRIMEDIA Intertec, Overland Park, KS, October 1988.
- "Electrical Standards Reference Manual," U.S. Department of Labor, Washington, D.C.
- El-Hawary, Mohamed E., "Compensation," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), pp. 1244, CRC Press, Boca Raton, FL, 1993.
- EMP Protection Device Applications Handbook*, English Electric Valve publication.
- Fardo, S., and D. Patrick, *Electrical Power Systems Technology*, Prentice-Hall, Englewood Cliffs, NJ, 1985.
- Federal Information Processing Standards Publication no. 94, *Guideline on Electrical Power for ADP Installations*, U.S. Department of Commerce, National Bureau of Standards, Washington, D.C., 1983.
- Filanovsky, I. M., "Capacitance and Capacitors," in *The Electronics Handbook*, Jerry C. Whitaker (ed.), pp. 371, CRC Press, Boca Raton, FL, 1996.
- Fink D., and D. Christiansen (eds.), *Electronics Engineers' Handbook*, 3rd ed., McGraw-Hill, New York 1989.
- Fink, D. G., *Standard Handbook for Electrical Engineers*, McGraw-Hill, New York, 1978.
- Frank, Donald, "Please Keep Your EMC Out of My ESD," *Proceedings, IEEE Reliability and Maintainability Symposium*, IEEE, New York, 1986.
- Garrod, S., and R. Borns, *Digital Logic: Analysis, Application, and Design*, Saunders College Publishing, Philadelphia, 1991.
- Garrod, Susan A. R.: "D/A and A/D Converters," *The Electronics Handbook*, Jerry C. Whitaker (ed.), CRC Press, Boca Raton, FL, pp. 723–730, 1996.
- Gloer, H. Niles, "Voltage Transients and the Semiconductor," *The Electronic Field Engineer*, Vol. 2, 1979.
- Goldstein, M., and P. D. Speranza, "The Quality of U.S. Commercial AC Power," *Proceedings of the IEEE*, IEEE, New York, 1982.
- Gross, Charles, "Fault Analysis in Power Systems," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), pp. 1252, CRC Press, Boca Raton, FL, 1993.

- Gruzs, Thomas M., "High Availability, Fault-Tolerant AC Power Distribution Systems for Critical Loads," *Proceedings, Power Quality Solutions/Alternative Energy*, Intertec International, Ventura, CA, pp. 20–22, September, 1996.
- Hammar, Willie, *Occupational Safety Management and Engineering*, Prentice-Hall, New York.
- Harris, Brad, "The Digital Storage Oscilloscope: Providing the Competitive Edge," *Electronic Servicing & Technology*, PRIMEDIA Intertec, Overland Park, KS, June 1988.
- Harris, Brad, "Understanding DSO Accuracy and Measurement Performance," *Electronic Servicing & Technology*, PRIMEDIA Intertec, Overland Park, KS, April 1989.
- Hemming, Leland H., et al., "Compatibility," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), CRC Press, Boca Raton, FL, pp. 914, 1993.
- Highnote, Ronnie L., *The IFM Handbook of Practical Energy Management*, Institute for Management, Old Saybrook, CT, 1979.
- Hill, Mark, "Computer Power Protection," *Broadcast Engineering*, PRIMEDIA Intertec, Overland Park, KS, April 1987.
- "How to Correct Power Line Disturbances," Dranetz Technologies, Edison, NJ, 1985.
- Hoyer, Mike, "Bandwidth and Rise Time: Two Keys to Selecting the Right Oscilloscope," *Electronic Servicing & Technology*, PRIMEDIA Intertec, Overland Park, KS, April 1990.
- IEEE 142 (Green Book), "Grounding Practices for Electrical Systems," IEEE, New York.
- IEEE Standard 100, *Definitions of Electrical and Electronic Terms*, IEEE, New York, NY.
- IEEE Standard 1100, "Recommended Practice for Powering and Grounding Sensitive Electronics Equipment," IEEE, New York, NY, 1992.
- IEEE Standard 142, "Recommended Practice for Grounding Industrial and Commercial Power Systems," IEEE, New York, NY, 1982.
- IEEE Working Group, "Radial Distribution Test Feeders," *IEEE Transactions on Power Systems*, Vol. 6, No. 3, pp. 975, IEEE, New York, 1996.
- Jay, Frank, (ed.), *IEEE Standard Directory of Electrical and Electronics Terms*, 3rd ed., IEEE, New York, 1984.
- Jordan, Edward C. (ed.), *Reference Data for Engineers: Radio, Electronics, Computer, and Communications*, 7th Ed., Howard W. Sams Company, Indianapolis, 1985.

- Kaiser, Bruce A., "Can You Really Fool Mother Nature?," *Cellular Business*, PRIMEDIA Intertec, Overland Park, KS, March 1989.
- Kaiser, Bruce A., "Straight Talk on Static Dissipation," *Proceedings of ENTELEC 1988*, Energy Telecommunications and Electrical Association, Dallas, 1988.
- Kalkur, T. S., "Rectifier and Filter Circuits," in *The Electronics Handbook*, Jerry C. Whitaker, (ed.), CRC Press, Boca Raton, FL, pp. 938–943, 1996.
- Kanarek, Jess, "Protecting Against Static Electricity Damage," *Electronic Servicing & Technology*, PRIMEDIA Intertec, Overland Park, KS, March 1986.
- Karady, George, "Conventional Power Generation," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), pp. 1193, CRC Press, Boca Raton, FL, 1993.
- Key, Lt. Thomas, "The Effects of Power Disturbances on Computer Operation," IEEE Industrial and Commercial Power Systems Conference paper, Cincinnati, June 7, 1978.
- Koch, T., W. Richling, J. Witlock, and D. Hall, "A Bond Failure Mechanism," *Proceedings, IEEE Reliability Physics Conference*, IEEE, New York, April 1986.
- Kramer, Robert A., "Analytic and Operational Consideration of Electric System Reliability," *Proceedings of the Reliability and Maintainability Symposium*, IEEE, New York 1991.
- Lanphere, John, "Establishing a Clean Ground," *Sound & Video Contractor*, PRIMEDIA Intertec, Overland Park, Kan., August 1987.
- Lawrie, Robert H., *Practical Guide to Electrical Energy Efficiency and Reduced Costs*, PRIMEDIA Intertec, Overland Park, KS, 1994. 485
- Lawrie, Robert, *Electrical Systems for Computer Installations*, McGraw-Hill, New York, 1988.
- Little, Richard, "Surge Tolerance: How Does Your Site Rate?" *Mobile Radio Technology*, PRIMEDIA Intertec, Overland Park, KS, June 1988.
- Lobnitz, Edward A., "Lightning Protection for Tower Structures," in *NAB Engineering Handbook*, Jerry C. Whitaker (ed.), National Association of Broadcasters, Washington, D.C., 1998.
- Lowdon, Eric, *Practical Transformer Design Handbook*, Howard W. Sams Company, Indianapolis, 1980.
- Lowenstein, Michael Z., "Power Factor Improvement for Non-Linear Loads," 1991 Annual Technology Conference of the Textile, Fiber, and Film Industry Committee, Industry Applications Society of the IEEE, Greenville, SC, May 1991.
- Martzloff, F. D., "The Development of a Guide on Surge Voltages in Low-Voltage AC Power Circuits," 14th Electrical/Electronics Insulation Conference, IEEE, Boston, October 1979.

- Massey, Gregory W., "Power Factor Improvement Capacitors: The Balance Between Power Quality and Energy Efficiency," in *Power Quality Solutions/Alternative Energy*, Powersystems World '96, Intertec International, Ventura, CA, pp. 34, 1996.
- "Materials Selector 1987," *Materials Engineering*, Penton Publishing.
- McPartland, Joseph, and Brian McPartland, *National Electrical Code Handbook*, 20th ed., McGraw-Hill, New York, 1990.
- Meeldijk, Victor, "Why Do Components Fail?," *Electronic Servicing & Technology*, PRIMEDIA Intertec, Overland Park, Kan., November 1986.
- Midkiff, John, "Choosing the Right Coaxial Cable Hanger," *Mobile Radio Technology*, PRIMEDIA Intertec, Overland Park, KS, April 1988.
- Military Handbook 419A, "Grounding, Bonding, and Shielding for Electronic Systems," U.S. Government Printing Office, Philadelphia, PA, December 1987.
- Mohan, N., and T. Undeland, *Power Electronics: Converters, Applications, and Design*, John Wiley, New York, 1989.
- Montgomery, Steve, "Advances in Digital Oscilloscopes," *Broadcast Engineering*, PRIMEDIA Intertec, Overland Park, KS, November 1989.
- Morgan, Robert B., "Improving Power Factor for Greater Efficiency— Part 2," *Electrical Construction & Maintenance*, PRIMEDIA Intertec, Overland Park, KS, November 1994.
- Morgan, Robert B., "Monitoring and Analysis," *Electrical Construction & Maintenance*, PRIMEDIA Intertec, Overland Park, KS, pp. 63–74, November 1994.
- Motorola application note AN843.
- Motorola TMOS Power MOSFET Data Handbook*, Motorola Semiconductor, Phoenix.
- MOV Varistor Data and Applications Manual*, General Electric Company, Auburn, N.Y., 1976.
- Mullinack, Howard G., "Grounding for Safety and Performance," *Broadcast Engineering*, PRIMEDIA Intertec, Overland Park, KS, October 1986.
- National Electrical Code, NFPA no. 70.
- Nenoff, Lucas, "Effect of EMP Hardening on System R&M Parameters," *Proceedings, IEEE Reliability and Maintainability Symposium*, IEEE, New York, 1986.
- Newman, Paul, "UPS Monitoring: Key to an Orderly Shutdown," *Microservice Management*, PRIMEDIA Intertec, Overland Park, KS, March 1990.
- NFPA Standard 70, "The National Electrical Code," National Fire Protection Association, Quincy, MA, 1993.

- Noise Suppression Reference Manual*, Topaz Electronics, San Diego.
- Nott, Ron, "The Sources of Atmospheric Energy," *Proceedings of the SBE National Convention and Broadcast Engineering Conference*, Society of Broadcast Engineers, Indianapolis, 1987.
- Nowak, Stewart, "Selecting a UPS," *Broadcast Engineering*, PRIMEDIA Intertec, Overland Park, KS, April 1990.
- Nyquist, H.: "Certain Factors Affecting Telegraph Speed," *Bell System Tech. J.*, Vol. 3, pp. 324–346, March 1924.
- "Occupational Injuries and Illnesses in the United States by Industry," OSHA Bulletin 2278, U.S. Department of Labor, Washington, D.C., 1985.
- OSHA, "Electrical Hazard Fact Sheets," U.S. Department of Labor, Washington, D.C., January 1987.
- OSHA, "Handbook for Small Business," U.S. Department of Labor, Washington, D.C.
- Pearman, Richard, *Power Electronics*, Reston Publishing Company, Reston, VA, 1980.
- Petrecca, Richard M., "Mitigating the Effects of Harmonics and Other Disturbances with an Active Power Line Conditioner," *Power Quality Solutions*, Intertec International, Ventura, CA, 1997.
- Pettinger, Wesley, "The Procedure of Power Conditioning," *Microservice Management*, PRIMEDIA Intertec, Overland Park, KS, March 1990.
- Pfrimmer, Jack, "Identifying and Managing PCBs in Broadcast Facilities," *NAB Engineering Conference Proceedings*, National Association of Broadcasters, Washington, D.C., 1987.
- Plater, Bryan B., and James A. Andrews, "Advances in Flywheel Energy Storage Systems," *Power Quality '97*, Intertec International, Ventura, CA, pp. 460–469, 1997.
- Practical Guide to Ground Fault Protection*, PRIMEDIA Intertec, Overland Park, KS, 1995.
- Rajashekara, K., A. K. S. Bhat, and B. K. Bose, "Power Electronics," in *The Electrical Engineering Handbook*, Richard Dorf, (ed.), CRC Press, Boca Raton, FL, pp. 694–701, 1993.
- Redl, R., P. Tenti, and J. D. Van Wyk, "Power Electronics' Polluting Effects," *IEEE Spectrum*, IEEE, New York, pp. 33, May 1997.
- Rice, David E., "Adjustable Speed Drive and Power Rectifier Harmonics—Their Effect on Power Systems Components," *IEEE Transactions on Industry Applications*, Vol. IA-22, No. 1, IEEE, New York, January/February 1986.

- Rudman, Richard, "Disaster Planning and Recovery," in *The Electronics Handbook*, Jerry C. Whitaker (ed.), CRC Press, Boca Raton, FL, pp. 2266–2267, 1996.
- Sankaran, C., "Transformers," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), pp. 33, CRC Press, Boca Raton, FL, 1993.
- Schneider, John, "Surge Protection and Grounding Methods for AM Broadcast Transmitter Sites," *Proceedings of the SBE National Convention and Broadcast Engineering Conference*, Society of Broadcast Engineers, Indianapolis, 1987.
- Schwarz, S. J., "Analytical Expression for Resistance of Grounding Systems," *AIEE Transactions*, Vol. 73, Part III-B, pp. 1011–1016, 1954.
- SCR Applications Handbook*, International Rectifier Corporation, El Segundo, CA, 1977.
- SCR Manual*, 5th ed., General Electric Company, Auburn, N.Y.
- Smeltzer, Dennis, "Getting Organized About Power," *Microservice Management*, PRIMEDIA Intertec, Overland Park, KS, March 1990.
- Smith, Morgan, "Planning for Standby AC Power," *Broadcast Engineering*, PRIMEDIA Intertec, Overland Park, KS, March 1989.
- Stephens, Dan, "Surge Protection for Electric Motors," *Technical Briefs*, Burns & McDonnell, Kansas City, MO, February 1991.
- Stoll, H. G., *Least-Cost Electric Utility Planning*, John Wiley & Sons, New York, 1989.
- Stuart, Bud, "Maintaining an Antenna Ground System," *Broadcast Engineering*, PRIMEDIA Intertec, Overland Park, KS, October 1986.
- Sullivan, Thomas, "How to Ground Coaxial Cable Feedlines," *Mobile Radio Technology*, PRIMEDIA Intertec, Overland Park, KS, April 1988.
- Sunde, E. D., *Earth Conduction Effects in Transmission Systems*, Van Nostrand Co., New York, NY, 1949.
- Sydnor, Alvin, "Voltage Breakdown in Transistors," *Electronic Servicing & Technology*, PRIMEDIA Intertec, Overland Park, Kan., July 1986.
- Technical Reports LEA-9-1, LEA-0-10, and LEA-1-8, Lightning Elimination Associates, Santa Fe Springs, CA.
- Technical staff, "Aluminum Electrolytic Capacitors: Reliability, Expected Life, and Shelf Capability," *Sprague Applications Guide*, Sprague Electric Company, Lansing, NC, 1989.
- Technical staff, "Introduction to Tantalum Capacitors," *Sprague Applications Guide*, Sprague Electric Company, Lansing, NC, 1989.

- Technical staff, "Moore's Law: Changing the PC Platform for Another 20 Years," Intel Corporation Web site, [www.intel.com](http://www.intel.com), 1998.
- Technical staff, "The Susceptibility of the Open Delta Connection to Third Harmonic Disturbances," Harris Corporation, technical paper, Quincy, IL.
- Technical staff, "Update: Transient Suppressors," *Electronic Products*, June 1988.
- Technical staff, "Voltage Transients and the Semiconductor," *The Electronic Field Engineer*, pp. 37–40, March/April 1979.
- Technical staff, *Bipolar Power Transistor Reliability Report*, Motorola Semiconductor, Phoenix, 1988.
- Technical staff, Military/Aerospace Products Division, *The Reliability Handbook*, National Semiconductor, Santa Clara, CA, 1987.
- Technical staff, *MOV Varistor Data and Applications Manual*, General Electric Company, Auburn, NY.
- Technical staff, *Sencore News*, Issue 122, Sencore Corporation, Sioux Falls, SD.
- Terman, F. E., *Radio Engineering*, McGraw-Hill, New York, 1947.
- Thallam, R. S., "High-Voltage Direct-Current Transmission," in *The Electrical Engineering Handbook*, Richard C. Dorf (ed.), pp. 1227, CRC Press, Boca Raton, FL, 1993.
- Tyrrell, Peter A., "Transformer Impedance Versus Your Rectifiers," *Broadcast Engineering*, PRIMEDIA Intertec, Overland Park, KS, September 1980.
- Ula, Sadrul, "Transformers," in *The Electronics Handbook*, Jerry C. Whitaker (ed.), pp. 927, CRC Press, Boca Raton, FL, 1996.
- Ulman, Martin A., "Natural and Artificially Initiated Lightning and Lightning Test Standards," *Proceedings of the IEEE*, IEEE, New York, Vol. 76, No. 12, December 1988.
- Ulman, Martin A., *The Lightning Discharge*, Academic Press, Orlando, FL, 1987.
- Voss, Mike, "The Basics of Static Control," *Electronic Servicing & Technology*, PRIMEDIA Intertec, Overland Park, KS, July 1988.
- Weaver, Eugene, J., "Dynamic Energy Storage System," *Power Quality Solutions/Alternative Energy*, Intertec International, Ventura, CA, pp. 373–380, 1996.
- Webster's New Collegiate Dictionary*.
- Whitaker, Jerry C., *Maintaining Electronic Systems*, CRC Press, Boca Raton, FL, 1991.
- Whitaker, Jerry C., *Radio Frequency Transmission Systems: Design and Operation*, McGraw-Hill, New York, 1990.

- White, Don, "Shielding and EMI Considerations," in *The Electronics Handbook*, Jerry C. Whitaker, (ed.), CRC Press, Boca Raton, FL, pp. 1121–1132, 1996.
- Wojslawowicz, J., "Ruggedized Transistors Emerging as Power MOSFET Standard-Bearers," *Power Technics*, pp. 29–32, January 1988.